

PCT/PTO 22 FEB 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 March 2004 (04.03.2004)

PCT

(10) International Publication Number
WO 2004/018741 A1

(51) International Patent Classification⁷: **C25D 15/00**,
9/00, 11/00, 9/02, B32B 9/04

(21) International Application Number:
PCT/US2003/026356

(22) International Filing Date: 22 August 2003 (22.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/405,582 23 August 2002 (23.08.2002) US

(71) Applicants (for all designated States except US): **UNIVERSITY OF MARYLAND BIOTECHNOLOGY INSTITUTE** [US/US]; 9600 Gudelsky Drive, Rockville, MD 20850 (US). **UNIVERSITY OF MARYLAND BALTIMORE COUNTY** [US/US]; 1000 Hilltop Circle, Baltimore, MD 21250 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YI, Hyunmin** [KR/US]; 3907 Lakehouse Rd., Apt. #13, Beltsville,

MD 20705 (US). **RUBLOFF, Gary, W.** [US/US]; 13720 Springdale Drive, Clarksville, MD 21029 (US). **BENTLEY, William, E.** [US/US]; 9513 Thornhill Road, Silver Spring, MD 20901 (US). **GHODSSI, Reza** [IR/US]; 5805 Edson Lane, #203, Rockville, MD 20852 (US). **PAYNE, Gregory, F.** [US/US]; P.O. Box 1304, Hunt Valley, MD 21030 (US).

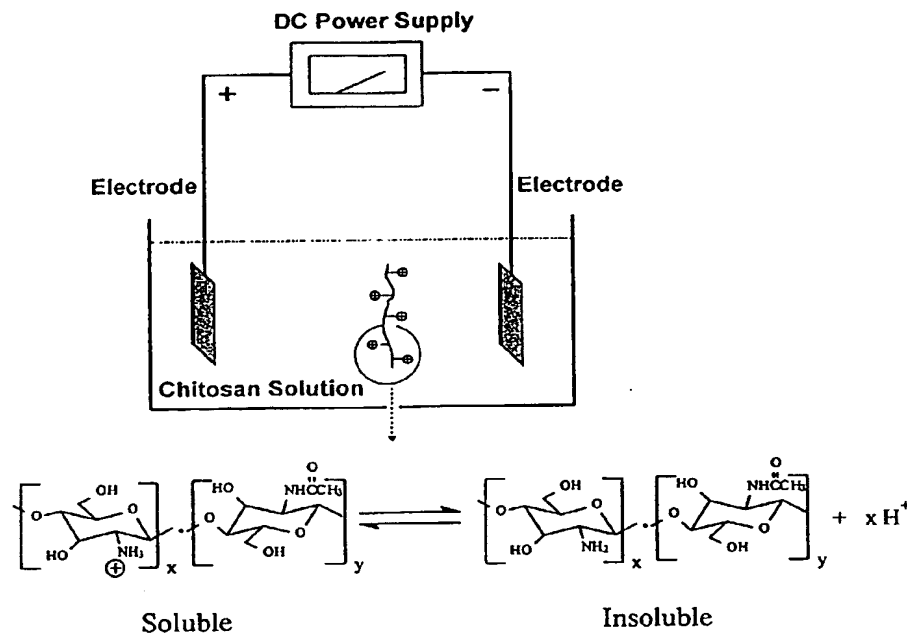
(74) Agents: **CORUZZI, Laura, A.** et al.; PENNIE & EDMONDS LLP, 1155 Avenue of the Americas, New York, NY 10036 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: ASSEMBLY OF CHITOSAN ONTO AN ELECTRODE SURFACE



(57) Abstract: The deposition of chitosan onto electrode surfaces is disclosed. Methods of depositing chitosan on surfaces are disclosed. Materials comprising chitosan deposited on a substrate are also disclosed.



ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments*

Published:

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*